



YOUR VOICE JUST GOT STRONGER

MOTOTRBO™ DP4000 SERIES DIGITAL TWO-WAY PORTABLE RADIOS



From the factory worker building components to the road crew making repairs, MOTOTRBO™ can transform your enterprise and make employee interactions smarter and safer. Our best-in-class audio and unrivaled data capabilities empower people like never before.

Versatile and powerful, MOTOTRBO combines the best of two-way radio functionality with the latest digital technology. DP4000 Series radios integrate voice and data seamlessly, offer enhanced features that are easy to use, and deliver business-critical advantages like integrated Bluetooth® and Intelligent Audio.

The DP4000 Series can remaster your workplace and the way people collaborate to help you achieve even greater efficiency.

PRODUCT SPEC SHEET

MOTOTRBO™ DP4000 SERIES PORTABLE RADIOS

AUDIO BEYOND EXPECTATIONS

When it comes to exceptional audio clarity, the quality of digital can't be denied. DP4000 Series portables give you digital audio performance throughout your coverage area plus unique features to help your employees hear and speak clearly, wherever they work.

With Intelligent Audio, the radio volume automatically adjusts to compensate for background noise so workers don't have to adjust their radio volume to avoid missing a call in loud situations or disturb others when they move into quiet areas. Increased background noise suppression helps filter out unwanted external clamor – from heavy equipment to the roar of engines.

Bluetooth® audio is embedded right in the radio, so no adapter is needed when using wireless accessories. Also, IMPRES™ audio accessories enhance noise suppression and improve voice intelligibility for smarter accessories than they've ever experienced before.

INDUSTRY-LEADING DATA

DP4000 Series radios feature integrated Bluetooth® data, so rather than waiting until the end of a shift, busy work crews can send real time information back to the office, saving valuable hours and enabling better decision making. Integrated GPS enables location tracking of mobile work teams and text messaging enables communication when voice isn't feasible. And the large, full-colour, 5-line display operates in day or night mode, for easy viewing of contact lists, text messages and work order tickets even in bright sunlight.

MOTOTRBO's Application Developer Program offers customised data applications so you can adapt your radios to your business challenges. With the largest developer program in the industry, data applications help meet your objectives – from work order ticket management to telephony integration, and more.

HIGH-POWERED PERFORMANCE

Because MOTOTRBO uses TDMA digital technology, you get integrated voice and data, twice the calling capacity and clearer voice communications. When it comes to battery performance, MOTOTRBO radios operate up to 40 percent longer between recharges compared to analogue.

OPTIONAL CITIZEN BAND FUNCTIONALITY

Extend the functionality of MOTOTRBO two-way radios for both private licensed band and citizen band operation. With 80 CB channels, compliant with ACMA standards, you can support communications across your workforce without the need for annual licensing fees or contracts.†

RICH FUNCTIONALITY

DP4000 Series radios offer plenty of features businesses seek – including enhanced call signaling, basic and enhanced privacy-scrambling, option board expandability and the transmit interrupt suite to prioritise critical communication the moment you need it. Programmable button features appear on the display for easy viewing and quick access. And when workers can't be distracted, customisable voice announcement provides audible confirmation of channel and zone changes as well as programmable button features, eliminating the need to view the display.

EXPANDED CAPACITY AND COVERAGE

Your workforce is hard at work every day – picking up loads, making road repairs, providing security, responding to guest requests or restoring power after a storm.

IP Site Connect helps to dramatically improve customer service and productivity by using the Internet to extend coverage to create a wide area network, enhance single site coverage or link geographically dispersed locations. Capacity Plus single-site trunking expands capacity to over 1,000 users without having to add new frequencies. Linked Capacity Plus combines the expanded capacity of Capacity Plus with the wide area coverage of IP Site Connect, delivering a high capacity, wide area, and cost effective multi-site trunking solution. So whether you want coverage at a single site or across multiple ones, MOTOTRBO can be scaled to your business and budget.

MIGRATE AT YOUR OWN PACE

Keeping operations running smoothly during a change in communication systems is vital to any business. It's easy to migrate to digital with DP4000 Series radios because they operate in analogue and digital mode. To ease the transition even further, the dynamic mixed mode repeater functionality streamlines automatic switching between analogue and digital calls. So you can begin using MOTOTRBO radios and repeaters on your existing analogue system, and when your time and budget allow, move to digital at your own pace.

DAY-IN, DAY-OUT DURABILITY

DP4000 Series radios meet the most demanding specs, including IP57 for water submersibility and U.S. Military 810 C, D, E, F, & G standards for exceptional durability. The radio is also "intrinsically safe" when purchased and equipped with an intrinsically safe (FM) battery, for use in environments where flammable gas, vapors or combustible dust may be present. And it's backed by a two-year Standard Warranty, and 1-year warranty for batteries and accessories.



KEEP YOUR BUSINESS RUNNING SMOOTHLY WITH BUSINESS APPLICATIONS:

-  **Location tracking:** Monitor the whereabouts of mobile workers so they can respond immediately; in an emergency, you can pinpoint security personnel and send the nearest to the scene
-  **Integrated Bluetooth®** for sharing data wirelessly and instantly between devices
-  **Dispatch consoles** for centralised communication
-  **Email gateways** to connect to email from your radio
-  **Network monitoring** to maximise system utilisation
-  **Man-down applications** so radios call for help when workers can't
-  **Telephony** for communication between radios and landline or mobile phones
-  **Text messaging** for quick and discreet communication
-  **Work order tickets** for faster customer response

PRODUCT SPEC SHEET

MOTOTRBO™ DP4000 SERIES PORTABLE RADIOS

DP4000 SERIES SPECIFICATIONS

GENERAL SPECIFICATIONS									
DISPLAY DP4800/DP4801/DP4600/DP4601					NON DISPLAY DP4400/DP4401				
		VHF	350*	UHF#	800**	VHF	350*	UHF#	800**
Channel Capacity		1000				32			
Frequency [^]		136-174 MHz	350-400 MHz	403-527 MHz	806-870 MHz	136-174 MHz	350-400 MHz	403-527 MHz	806-870 MHz
IMPRES Hi-Cap Li-ion 2150 mAh Battery (PMNN4409)	(HxWxL)	130.3 mm / 55.2 mm / 41.1 mm				130.3 mm / 55.2 mm / 39.6 mm			
	Weight	355.5 g		350 g		323 g		318 g	
Slim IMPRES Li-ion 1500 mAh Battery (PMNN4407)	(HxWxL)	130.3 mm / 55.2 mm / 35.8 mm				130.3 mm / 55.2 mm / 34.3 mm			
	Weight	335.5 g		330 g		303 g		298 g	
IMPRES Hi-Cap Li-ion FM 2300 mAh Battery (NNTN8129)	(HxWxL)	130.3 mm / 55.2 mm / 41.1 mm				130.3 mm / 55.2 mm / 39.6 mm			
	Weight	365.5 g		360 g		333 g		328 g	
Power Supply					7.5 V (Nominal)				
Operating Temperature					-30 ~ +60 °C ¹				
FCC Description		ABZ99FT3085	-	ABZ99FT4086	-	ABZ99FT3085	-	ABZ99FT4086	-
IC Description		109AB-99FT3085	-	109AB-99FT4086	-	109AB-99FT3085	-	109AB-99FT4086	-

BATTERY			
Average Battery Life		5/5/90 duty cycle with carrier squelch and transmitter in high power ²	
Slim IMPRES Li-ion 1500 mAh Battery		Analogue: 7.7 hrs/Digital: 11.3 hrs	Analogue: 8 hrs/Digital: 11.8 hrs
IMPRES Hi-Cap Li-ion 2150 mAh Battery		Analogue: 11.1 hrs/Digital: 16.2 hrs	Analogue: 11.5 hrs/Digital: 17 hrs
IMPRES Hi-Cap Li-ion FM 2300 mAh Battery		Analogue: 11.9 hrs/Digital: 17.3 hrs	Analogue: 12.3 hrs/Digital: 18.1 hrs

RECEIVER					TRANSMITTER				
		VHF	350	UHF	800	VHF	350	UHF	800
Frequencies		136-174 MHz	350-400 MHz	403-527 MHz	806-870 MHz	136-174 MHz	350-400 MHz	403-527 MHz	806-870 MHz
Channel Spacing		12.5/25kHz				12.5/25 kHz			
Frequency Stability (-30°C, +60°C, +25°C Ref)		± .5 ppm				± .5 ppm			
Analogue Sensitivity (12dB SINAD)		0.3uV (0.22uV typical)				1W			
Digital Sensitivity		0.25 uV (0.19 uV typical)				1W			
Intermodulation (TIA603D)		70 dB				1W			
Adjacent Channel Selectivity (TIA603A)-1T		60dB @ 12.5 kHz / 70dB @ 25 kHz				High Power Output			
Adjacent Channel Selectivity (TIA603D)-2T		45dB @ 12.5 kHz / 70dB @ 25 kHz				5W			
Spurious Rejection (TIA603D)		70 dB				4W			
Rated Audio		0.5W				4W/2.5W			
Audio Distortion @ Rated Audio		5% (3% typical)				Modulation Limiting			
Hum and Noise		-40dB @ 12.5 kHz / -45dB @ 25 kHz				± 2.5kHz @ 12.5 kHz / ± 5.0kHz @ 25 kHz			
Audio Response		TIA603D				FM Hum and Noise			
Conducted Spurious Emission (TIA603D)		-57dBm				-40dB @ 12.5 kHz / -45dB @ 25 kHz			
						Conducted/Radiated Emission			
						-36 dBm < 1GHz / -30 dBm > 1GHz			
						Adjacent Channel Power			
						60dB @ 12.5 kHz / 70dB @ 25 kHz			
						Audio Response			
						TIA603D			
						Audio Distortion			
						3%			
						4FSK Digital Modulation			
						12.5 kHz Data: 7K60F1D & 7K60FXD			
						12.5 kHz Voice: 7K60F1E & 7K60FXE			
						Combination of 12.5 kHz Voice & Data: 7K60F1W			
						Digital Vocoder Type			
						AMBE+2™			
						Digital Protocol			
						ETSI TS 102 361-1, -2, -3			

Citizen Band available in DP4600, DP4601, DP4800 and DP4801 (wideband)

*350-400MHz DP4801 and DP4401 only.

**806-870MHz DP4800, DP4801 and DP4401 only.

[^]Availability subject to country type approval and licence requirements.

¹ Radio only - Li-Ion battery -10C

² Actual battery runtime observed may vary based on the use of certain features such as GPS, Bluetooth, and Expansion Card based applications. Please contact your Motorola sales representative for battery runtime expectations based on your specific radio configuration.

PRODUCT SPEC SHEET

MOTOTRBO™ DP4000 SERIES PORTABLE RADIOS

GPS

Accuracy specs are for long-term tracking (95th percentile values >5 satellites visible at nominal -130 dBm signal strength)

T TFF (Time To First Fix) - Cold Start	< 60 seconds
T TFF (Time To First Fix) - Hot Start	< 10 seconds
Horizontal Accuracy	< 5 meters

BLUETOOTH

Version	Supports Bluetooth® 2.1 + EDR Specification
Range	Class 2, 10 meters

FACTORY MUTUAL APPROVALS

MOTOTRBO™ DP4000 Series portable radios have been certified by FM in accordance with U.S. Codes as intrinsically safe for use in Class I, II, III, Division 1, Groups C, D, E, F, G, when properly equipped with a Motorola FM approved battery option. They are also approved for use in Class I, Division 2, Groups A, B, C, D.

ENVIRONMENTAL SPECIFICATIONS

Operating Temperature	-30° C / +60° C
Storage Temperature	-40° C / +85° C
Thermal Shock	Per MIL-STD
Humidity	Per MIL-STD
ESD	IEC 61000-4-2 Level 3
Dust and Water Intrusion	IEC 60529 - IP57
Packaging test	MIL-STD 810D and E

Testing completed using portable radio with attached battery and antenna.

MILITARY STANDARDS

APPLICABLE MIL-STD	810C		810D		810E		810F		810G	
	METHOD	PROCEDURES	METHOD	PROCEDURES	METHOD	PROCEDURES	METHOD	PROCEDURES	METHOD	PROCEDURES
Low Pressure	500.1	I	500.2	II	500.3	II	500.4	II	500.5	II
High Temperature	501.1	I, II	501.2	I/A1, II/A1	501.3	I/A1, II/A1	501.4	I/Hot, II/Hot	501.5	I-A1, II
Low Temperature	502.1	I	502.2	I/C3, II/C1	502.3	I/C3, II/C1	502.4	I-C3, II/C1	502.5	I, II
Temperature Shock	503.1	-	503.2	I/A1/C3	503.3	I/A1/C3	503.4	I	503.5	I-C
Solar Radiation	505.1	II	505.2	I	505.3	I	505.4	I	505.5	I-A1
Rain	506.1	I, II	506.2	I, II	506.3	I, II	506.4	I, III	506.5	I, III
Humidity	507.1	II	507.2	II	507.3	II	507.4	-	507.5	II
Salt fog	509.1	-	509.2	-	509.3	-	509.4	-	509.5	-
Dust	510.1	I	510.2	I	510.3	I	510.4	I	510.5	I
Vibration	514.2	VIII/F, Curve-W	514.3	I/10, II/3	514.4	I/10, II/3	514.5	I/24	514.6	II/5
Shock	516.2	I, II	516.3	I, IV	516.4	I, IV	516.5	I, IV	516.6	I, IV, VI

For more information on how to strengthen your portable voice, visit motorolasolutions.com.au

Specifications subject to change without notice. All specifications shown are typical.

Radio meets applicable regulatory requirements.

AUTHORIZED DEALER

LINKWELL TELECOM SERVICES.
 1/4, Puranik Building, Near Old Post Office,
 Panvel, Navi Mumbai, Maharashtra, India-410 206.
 Tel. No. : 022-27462199.
www.linkwelltelecom.com

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